Docket No. 3587-0126PUS1

(Patent)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application of:

Ambrose Jacob Spinnler

BENADE et al.

Application No.:

10/590,733

Confirmation No. 1188

Filed:

December 20, 2006

Art Unit:

1789

For

FOOD PRODUCT RICH IN FAT/OIL, PROTEIN AND SWEETENING ACENT Examiner

H. T. MEHTA

DECLARATION UNDER 37 C.F.R. § L132

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sim

I, Unnikrishnan Ramachandran Unnithan, hereby declare as follows:

I am one of the co-inventors of the invention as described and claimed in the above-identified patent application.

I have a Master's Degree in Chemical Engineering and have 27 years experience in the field of oils and fats.

The following comparative testing has been carried out by me or under my direct supervision. Test procedures and results are shown below.

Comparative Testing

I have reviewed U.S. Patent No. 3,851,070 to Sessoins et al. (hereinafter referred to as "Sessoins") and have concluded that Example I of Sessoins is the closest example to the present invention. As such, Example I of Sessoins was prepared with the following ingredients and their respective amounts.

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| Sessons | % |
|------------------------------|-------|
| Soy protein isolate | 30 |
| Sucrose | 22 |
| Soybean oil IV 108 | 40.65 |
| Hardened soybean oil IV 8 | 2.3 |
| Equisiõe | 4 |
| Citric acid | 0.5 |
| Flavoring (oil of tangering) | 0.35 |
| Total | 100 |

For comparison, an inventive example was prepared with the following ingredients and their respective amounts.

| 9/0 |
|--------|
| 64.5 |
| 15.48 |
| 19:35 |
| 0.33 |
| |
| |
| 0.15 |
| 0.19 |
| 100.00 |
| |

Then, notational values were determined for each example. The results are shown in the table below.

| | | Action to the second |
|---------------------------------------|------------|----------------------|
| Nutritional Values per 100g of Spread | 10/590,733 | Sessoms |
| Fat see | 68.5 g | 44.2 8 |
| Protein | 6.5 g | 240 g |
| Carbohydrate | 17.6 g | 24.1 g |
| iron | 21.1 mg | 0.0 mg |
| Zinc | 20.7 mg | 0.0 ខាម្ |
| Selenium | 133.0 mg | 0,0 mg |
| Ascorbic acid | 150.0 mg | (),() mig |
| Carolenes | 32.3 mg | 0.0 mg |
| Tocopherols | 6.5 mg | 59.8 mg |
| Tocopherals & Tocotrienals | 25.8 mg | 0.0 mg |
| Isofiavones | 50.0 mg | 29.2 mg |

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The spread of Sessoms is essentially just protein, fats, and carbohydrates without much micro-nutrients except for tocopherols from soybean oil. It emphasizes mainly on the use of specially hydrated and subsequently dried soys protein as the key inventive step. The spread of Sessoms provides basic nutrition but contains hydrogenated fat, which bear harmful trans-fatty acids. As such, the spread of Sessoms is not as healthy as the present invention.

The present invention is not affected whether hydrated soys protein is used or not Specifically, the present invention provides basic nutrients as well as vitamins and minerals. The present invention is also healthier than the spread of Sessoms since it does not contain partially hydrogenated fats nor aflatoxins. The present invention has a long shelf life and is resistant to fungal growth. As such, the present invention is able to promote health, growth, and development of children in poor developing countries.

Further comparisons between Sessoms and the present invention are shown in the table below.

| No. | Sessons | 10/590/33 |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Specially hydrated and subsequently dried soya protein (this is the most inventive step of this invention) | Ordinary soyn flour with no hydration necessary. This is not the key component of this invention |
| 2 | Uses hydrogenated fat as hardstock | Zero hydrogenated fat and free from mans-fatty acids |
| 3 | Uses emulsifier | No emulsifier required |
| 4 | Basestock liquid triglyceride is soyabean oil as stated in Claim 10. No palm fat is mentioned | Red palm oil containing natural carotenoids. tocopherols and tocotrienols |
| S | Uses citric acid | No entric acid required |
| ő | Uses coloring | No coloring required. Natural color is inherent in Red palm oil |
| 7 | No micronutrient required | Uses micronutrient mix as a source of minerals |
| 8 | No vitamins required | Uses vitamin or vitamin mix |
| 9 | Water content not part of claim | Water content of spread not more than 7 wt% in order to have long shelf-life and resistant to fungal growth |
| 10 | No micronument and vitamin required | Unique blend of water-soluble micronuments and vitamin C into a fat-based spread |
| | Formulation specifically target good mouth- feel with specially treated soy protein. "High nutrition" in this invention refers specifically to soy protein | Formulation specifically target micro-nutrient alleviation with specific content of fat, protein, carbohydrate, iron, zinc, selenium, ascorbic acid, carotenoids (pro-vitamin A), tocophorols and/or tocotrienols (vitamin E) and isoflavones listed |

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The undersigned declares further that all statements made berein of his own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S. Code 1001 and that such willful false statements may jeopardize the validity of this application or any patent issuing thereon.

Siv:

Unnikrishnan Ramachandran Unnithan

Date: March 22, 2011